

## AMENDMENTS TO THE CLAIMS

The following is a complete listing of revised claims with a status identifier in parenthesis.

### LISTING OF CLAIMS

1-16. (Canceled)

17. (Currently Amended) A recording medium having a data structure for managing reproduction of at least video data representing multiple reproduction paths, comprising:

a data area storing a transport stream of at least video data, the transport stream being divided into transport packets, each of the transport packets associated with one of the multiple reproduction paths, and the transport packets of each reproduction path being stored as a separate file from one another, and

a navigation area storing a first ~~type of~~ navigation unit, the first ~~type of~~ navigation unit including one or more second navigation units ~~of a second type~~ and controlling a reproduction order of the second ~~type of~~ navigation units, ~~each at least one~~ second ~~type of~~ navigation unit referencing ~~one or more~~ than one third navigation units ~~of a third type~~, each third ~~type of~~ navigation unit indicating a separate file of video data in the data area to reproduce.

18. (Currently Amended) The recording medium of claim 17, wherein the third ~~type of~~ navigation units ~~is~~ associated with the -at least one of the

second ~~type of~~ navigation units are each associated with a different one of the multiple reproduction paths.

19. (Currently Amended) The recording medium of claim 18, wherein a number of the third ~~type of~~ navigation units ~~is associated with~~ is associated with the at least one of the second ~~type of~~ navigation units is equal to a number of the multiple reproduction paths.

20. (Canceled)

21. (New) The recording medium of claim 19, wherein the at least one of the second navigation units includes a field indicating whether the at least one of the second navigation units provides navigation information for multiple reproduction paths.

22. (New) The recording medium of claim 17, wherein the at least one of the second navigation units includes a field indicating whether the at least one of the second navigation units provides navigation information for multiple reproduction paths.

23. (New) The recording medium of claim 17, wherein the transport packets of each reproduction path are stored in separate physical domains of the data area from one another.

24. (New) The recording medium of claim 17, wherein each reproduction path represents a digital channel.

25. (New) The recording medium of claim 17, wherein each reproduction path represents a sub-channel of an RF channel.

26. (New) A method of recording a data structure for managing reproduction of at least video data representing multiple reproduction paths, comprising:

recording a transport stream of at least video data on the recording medium, the transport stream being divided into transport packets, each of the transport packets associated with one of the multiple reproduction paths, and the transport packets of each reproduction path being stored as a separate file from one another; and

recording a first navigation unit on the recording medium, the first navigation unit including one or more second navigation units and controlling a reproduction order of the second navigation units, at least one of the second navigation units referencing more than one third navigation unit, each third navigation unit indicating a separate file of video data to reproduce.

27. (New) The method of claim 26, wherein the third navigation units associated with the at least one of the second navigation units are each associated with a different one of the multiple reproduction paths.

28. (New) The method of claim 27, wherein a number of the third navigation units associated with the at least one of the second navigation units is equal to a number of the multiple reproduction paths.

29. (New) The method of claim 28, wherein the at least one of the second navigation units includes a field indicating whether the at least one of the second navigation units provides navigation information for multiple reproduction paths.

30. (New) The method of claim 26, wherein the at least one of the second navigation units includes a field indicating whether the at least one of the second navigation units provides navigation information for multiple reproduction paths.

31. (New) The method of claim 26, wherein the transport packets of each reproduction path are stored in separate physical domains of the recording medium from one another

32. (New) The method of claim 26, wherein each reproduction path represents a digital channel.

33. (New) The method of claim 26, wherein each reproduction path represents a sub-channel of an RF channel.

34. (New) A method of reproducing a data structure for managing reproduction duration of at least video data representing multiple reproduction paths, comprising:

reproducing a transport stream of at least video data from the recording medium, the transport stream being divided into transport packets, each of the transport packets associated with one of the multiple reproduction paths, and the transport packets of each reproduction path being stored as a separate file from one another; and

reproducing a first navigation unit from the recording medium, the first navigation unit including one or more second navigation units and controlling a reproduction order of the second navigation units, at least one of the second navigation units referencing more than one third navigation unit, each third navigation unit indicating a separate file of video data to reproduce.

35. (New) The method of claim 34, wherein the third navigation units associated with the at least one of the second navigation units are each associated with a different one of the multiple reproduction paths.

36. (New) The method of claim 35, wherein a number of the third navigation units associated with the at least one of the second navigation units is equal to a number of the multiple reproduction paths.

37. (New) The method of claim 36, wherein the at least one of the second navigation units includes a field indicating whether the at least one of the second navigation units provides navigation information for multiple reproduction paths.

38. (New) The method of claim 34, wherein the at least one of the second navigation units includes a field indicating whether the at least one of the second navigation units provides navigation information for multiple reproduction paths.

39. (New) The method of claim 34, wherein the transport packets of each reproduction path are stored in separate physical domains of the recording medium from one another

40. (New) The method of claim 34, wherein each reproduction path represents a digital channel.

41. (New) The method of claim 34, wherein each reproduction path represents a sub-channel of an RF channel.

42. (New) An apparatus for recording a data structure for managing reproduction duration at least video data representing multiple reproduction paths, comprising:

a driver for driving an optical recording device to record data on the recording medium;

a controller configured to control the driver to record a transport stream of at least video data on the recording medium, the transport stream being divided into transport packets, each of the transport packets associated with one of the multiple reproduction paths, and the transport packets of each reproduction path being stored as a separate file from one another, and the controller configured to control the driver to record a first navigation unit on the recording medium, the first navigation unit including one or more second navigation units and controlling a reproduction order of the second navigation units, at least one of the second navigation units referencing more than one

third navigation unit, each third navigation unit indicating a separate file of video data to reproduce.

43. (New) The apparatus of claim 42, wherein the third navigation units associated with the at least one of the second navigation units are each associated with a different one of the multiple reproduction paths.

44. (New) The apparatus of claim 43, wherein a number of the third navigation units associated with the at least one of the second navigation units is equal to a number of the multiple reproduction paths.

45. (New) The apparatus of claim 44, wherein the at least one of the second navigation units includes a field indicating whether the at least one of the second navigation units provides navigation information for multiple reproduction paths.

46. (New) The apparatus of claim 42, wherein the at least one of the second navigation units includes a field indicating whether the at least one of the second navigation units provides navigation information for multiple reproduction paths.



47. (New) The apparatus of claim 42, wherein the transport packets of each reproduction path are stored in separate physical domains of the recording medium from one another

48. (New) The apparatus of claim 42, wherein each reproduction path represents a digital channel.

49. (New) The apparatus of claim 42, wherein each reproduction path represents a sub-channel of an RF channel.

50. (New) An apparatus for reproducing a data structure for managing reproduction duration of at least video data representing multiple reproduction paths, comprising:

a driver for driving an optical reproducing device to reproduce data recorded on the recording medium;

a controller for controlling the driver to reproduce a transport stream of at least video data from the recording medium, the transport stream being divided into transport packets, each of the transport packets associated with one of the multiple reproduction paths, and the transport packets of each reproduction path being stored as a separate file from one another, and the controller for controlling the driver to reproduce a first navigation unit from the recording medium, the first navigation unit including one or more second navigation units and controlling a reproduction order of the second navigation

units, at least one of the second navigation units referencing more than one third navigation unit, each third navigation unit indicating a separate file of video data to reproduce.

51. (New) The apparatus of claim 50, wherein the third navigation units associated with the at least one of the second navigation units are each associated with a different one of the multiple reproduction paths.

52. (New) The apparatus of claim 51, wherein a number of the third navigation units associated with the at least one of the second navigation units is equal to a number of the multiple reproduction paths.

53. (New) The apparatus of claim 52, wherein the at least one of the second navigation units includes a field indicating whether the at least one of the second navigation units provides navigation information for multiple reproduction paths.

54. (New) The apparatus of claim 50, wherein the at least one of the second navigation units includes a field indicating whether the at least one of the second navigation units provides navigation information for multiple reproduction paths.

55. (New) The apparatus of claim 50, wherein the transport packets of each reproduction path are stored in separate physical domains of the recording medium from one another

56. (New) The apparatus of claim 50, wherein each reproduction path represents a digital channel.

57. (New) The apparatus of claim 50, wherein each reproduction path represents a sub-channel of an RF channel.